Silicon Switching Diode Series

Features

- Available in JAN, JANTX, and JANTXV per MIL-PRF-19500/116
- Metallurgically Bonded
- Hermetically Sealed
- Double Plug Construction

Maximum Ratings

Operating & Storage Temperature:	-65°C to +175°C
Surge Current A, sine 8.3mS:	2.0 A
Surge Current B, square 8.3mS:	0.704 A
Operating Current:	125mA, T _A =+75°C

Derating Factor: 2.0 mA/°C above $T_A = +25$ °C

D.C. Reverse Voltage (VRWM): 75V





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Electrical Specifications @ +25 °C (Unless Otherwise Specified)

JEDEC TYPE Number	V _{BR} @ 100 μA	V _{RWM}	ΙO	V_{f1} I _F = 10 mA	V_{f2} I _F = 50 mA	T _{rr} (Note 1)	I _{R1} @ 20 Vdc		I _{R3} @ 20 Vdc T _A =150°C	I _{R4} @ 75 Vdc T _A =150°C	Capacitance @ 0V	Capacitance @1.5 V
	Volts	Volts (pk)	mA	Vdc	Vdc	nsec	nA	μΑ	μΑ	μΑ	pF	PF
1N914UR	100	75	75	0.8	1.2	5	25	0.5	35	75	4.0	2.8
1N4148UR-1	100	75	200	0.8	1.2	5	35	0.5	35	75	4.0	2.8

Note 1: $I_F = I_R = 10$ mA, $R_L = 100$ ohms.

Outline Drawing

MILLIMETERS INCHES DIM MIN MAX DIM 0.56 0.016 0.022 G 3.30 3.70 1.30 1.46 G1 2.54 REF. 100 REF. S 0.33 N.00 MIN. 0.016 0.022

LEADED DESIGN DATA

CASE: DO-213AA, Hermetically sealed glass case. (MELF, SOD-80, LL34) LEAD FINISH: Tin / Lead

THERMAL RESISTANCE: ($R_{\Theta JEC}$): 100 °C/W maximum at L = 0 inch

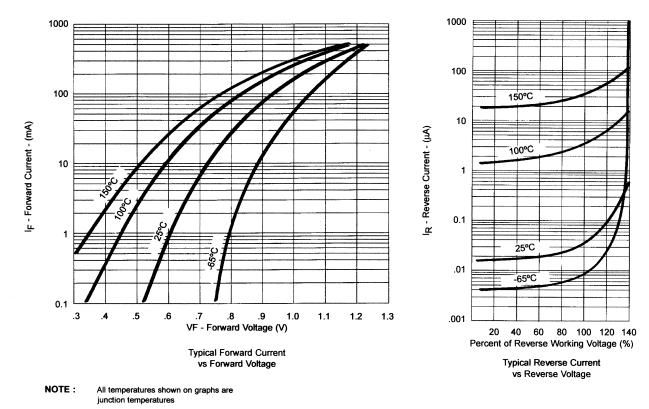
THERMAL IMPEDANCE: (Z_{OJX}): 25 °C/W maximum

POLARITY: Diode to be operated with the banded (cathode) end positive. **MOUNTING POSITION:** Any.





Graphs



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